

IN THE CLAIMS

On page 13, line 1, please delete the current heading "CLAIMS" and insert the following new heading:

What is claimed is:

This listing of claims will replace all prior versions and listings of claims in the application:

1. (Currently Amended) A method for testing a receiver of a wireless messaging device in a mobile communication system, comprising:

generating (604), in a production stage of the wireless messaging device a test signal which contains physical time-slots, at least one of which is allocated for transmission of system information from a base transceiver station of the mobile communication system to the messaging device,~~characterized by; and~~

positioning (606)-a synchronization sequence supported by the mobile communication system in a time-slot allocated for transmission of system information.

2. (Currently Amended) A method according to claim 1,~~characterized by~~ further comprising:

converting (608)-the test signal to radio frequency; and

transmitting (610)-the test signal to the receiver at the radio frequency.

3. (Currently Amended) A method according to claim 1, ~~characterized by~~ wherein positioning comprises positioning (606) a frequency synchronization sequence supported by the mobile communication system in a time-slot allocated for transmission of system information[[:]], the method further comprising:

identifying ~~(720)~~ the frequency synchronization sequence from the test signal; and

frequency-synchronizing ~~(722)~~ the receiver by means of the frequency synchronization sequence.

4. (Currently Amended) A method according to claim 1, ~~characterized by~~
wherein positioning comprises positioning ~~(606)~~ a time synchronization sequence supported
by the mobile communication system in a time-slot allocated for transmission of system
information[[;]], the method further comprising:

identifying ~~(726)~~ the time synchronization sequence from the test signal; and

time-synchronizing ~~(728)~~ the receiver by means of the time synchronization sequence.

5. (Currently Amended) A method according to claim 1, ~~characterized by~~
wherein positioning comprises:

positioning ~~(606)~~ a frequency synchronization sequence supported by the mobile
communication system in the first time-slot allocated for transmission of system information;
and

positioning ~~(606)~~ a time synchronization sequence supported by the mobile
communication system in the second time-slot allocated for transmission of system
information in such a way that the interval between the front edge of the first time-slot and
the front edge of the second time-slot is 8 time-slots.

6. (Currently Amended) A method according to claim 1, ~~characterized by~~
wherein generating comprises generating ~~(604)~~ a test signal containing a 51-frame multi-
frame, which has a plurality of time-slots allocated for transmission of system
information[[;]], and positioning comprises positioning ~~(606)~~ synchronization sequences
supported by the mobile communication system in time-slots allocated for transmission of

system information in such a way that the synchronization sequence is repeated at least 11 times in the 51-frame multi-frame.

7. (Currently Amended) A method according to claim 1, ~~characterized by~~
further comprising:

positioning ~~(702)~~ a test sequence in the test signal;

receiving ~~(704)~~ the test signal;

identifying ~~(706)~~ the test sequence from the test signal;

generating ~~(708)~~ a variable characterizing the receiver by means of the test sequence;

transmitting ~~(710)~~ a signal containing the receiver-characterizing variable from the wireless messaging device; and

receiving ~~(712)~~ the signal containing the receiver-characterizing variable from the wireless messaging device.

8. (Currently Amended) A method according to claim 1, ~~characterized by~~
wherein positioning comprises positioning ~~(606)~~ a synchronization sequence supported by the mobile communication system in a time-slot allocated for transmission of system information, which synchronization sequence contains at least one of the following: the training sequence code of a synchronization channel (~~SCH~~) according to the GSM standard; bits of a frequency correction channel (~~FCCH~~) according to the GSM standard.

9. (Currently Amended) A method according to claim 1, ~~characterized by~~ further comprising transmitting ~~(610)~~ the test signal to the receiver via an antenna connection of the receiver.

10. (Currently Amended) A method according to claim 1, ~~characterized by further~~ comprising loading ~~(602)~~ to the wireless messaging device a computer program which executes a computer process comprising ~~the steps of~~:

receiving the test signal as input;

identifying the synchronization sequence from the test signal; and

synchronizing the receiver by means of the synchronization sequence.

11. (Currently Amended) A method according to claim 1, ~~characterized by further~~ comprising identifying ~~(612)~~ the synchronization sequence from the test signal; and

synchronizing ~~(614)~~ the receiver by means of the synchronization sequence.

12. (Currently Amended) A system for testing a receiver of a wireless messaging device of a mobile communication system, comprising:

a test-signal generator ~~(102)~~ for generating a test signal ~~(106)~~ ~~[[,]]~~ in a production stage of the wireless messaging device, which test signal ~~(106)~~ contains physical time-slots ~~(4A to 4J)~~, at least one of which time-slots ~~(4A, 4J)~~ is allocated for transmission of system information from a base transceiver station of the mobile communication system to the messaging device ~~(112)~~, ~~characterized in that~~ the test-signal generator ~~(102)~~ is being configured to position a synchronization sequence supported by the mobile communication system in a time-slot ~~(4A, 4J)~~ allocated for the transmission of system information.

13. (Currently Amended) A system according to claim 12, ~~characterized in that~~ ~~the system further comprises~~ comprising:

conversion means ~~(104)~~ connected to the test-signal generator ~~(102)~~ for converting the test signal ~~(106)~~ to radio frequency; and

transmission means ~~(110)~~ connected to conversion means ~~(104)~~ for transmitting the test signal ~~(106)~~ to the receiver at the radio frequency.

14. (Currently Amended) A system according to claim 13, ~~characterized in that~~ wherein the transmission means ~~(110)~~ are connected to an antenna connector of the wireless messaging device.

15. (Currently Amended) A system according to claim 12, ~~characterized in that~~ wherein the test-signal generator ~~(102)~~ is configured to position one of the following in a time-slot ~~(4A, 4J)~~ allocated for transmission of system information: a time synchronization sequence supported by the mobile communication system, a frequency synchronization sequence supported by the mobile communication system.

16. (Currently Amended) A system according to claim 12, ~~characterized in that~~ wherein the test-signal generator ~~(102)~~ is configured to position a frequency synchronization sequence supported by the mobile communication system in the first time-slot ~~(4A)~~ allocated for transmission of system information; ~~and that,~~ the test-signal generator ~~(102)~~ is being further configured to position a time synchronization sequence supported by the mobile communication system in the second time-slot ~~(4J)~~ allocated for transmission of system information in such a way that the interval between the front edge of the first time-slot and the front edge of the second time-slot is 8 time-slots.

17. (Currently Amended) A system according to claim 12, ~~characterized in that~~ wherein the test-signal generator ~~(102)~~ is configured to generate a test signal ~~(106)~~ containing a 51-frame multi-frame ~~(500)~~, which has a plurality of time-slots ~~(5C, 5D)~~ allocated for transmission of system information; ~~and,~~ the test-signal generator ~~(102)~~ is being further configured to position synchronization sequences supported by the mobile communication system in time-slots ~~(5C, 5D)~~ allocated for transmission of system information in such a way that the synchronization sequence is repeated at least 11 times in the 51-frame multi-frame.

18. (Currently Amended) A system according to claim 12, ~~characterized in that~~
wherein the test-signal generator (102) is configured to position in the test signal (106) a test
sequence, of which the receiver generates a variable characterizing the receiver.

19. (Currently Amended) A system according to claim 12, ~~characterized in that~~
wherein the test-signal generator (102) is configured to position a synchronization sequence
supported by the mobile communication system in a time-slot (4A, 4J) allocated for
transmission of system information, which synchronization sequence contains at least one of
the following: the training sequence code of a synchronization channel (SCH) according to
the GSM standard; bits of a frequency correction channel (FCCH) according to the GSM
standard.

20. (Currently Amended) A system according to claim 12, ~~characterized in that~~
wherein the system further comprises a connection unit (134) for receiving from the wireless
messaging device a signal (126) that contains a variable characterizing the receiver.

21. (Currently Amended) A system according to claim 12, ~~characterized in that~~
~~the system comprises~~ further comprising a loading unit (144) for loading a computer program
to the wireless messaging device, which computer program executes a computer process
comprising the steps of:

receiving the test signal as input;

identifying the synchronization sequence from the test signal; and

synchronizing the receiver by means of the synchronization sequence.

22. (Currently Amended) A computer program for executing a computer process
for testing a receiver of a wireless messaging device of a mobile communication system, the
computer process ~~being characterized in that it comprises the steps of~~ comprising:

receiving ~~(610B)~~, in a production stage of the wireless messaging device, as input a test signal containing physical time-slots, at least one of which is allocated for transmission of system information from a base transceiver station of the mobile communication system to the messaging device, a synchronization sequence supported by the mobile communication system being positioned in this time-slot;

identifying ~~(612)~~ the synchronization sequence from the test signal; and

synchronizing ~~(614)~~ the receiver by means of the synchronization sequence.

23. (Currently Amended) A computer program according to claim 22, ~~characterized in that~~ wherein the computer process comprises:

receiving ~~(718)~~ the test signal as input, a frequency synchronization sequence being positioned in at least one of its time-slots allocated for transmission of system information;

identifying ~~(720)~~ the frequency synchronization sequence from the test signal; and

frequency-synchronizing ~~(722)~~ the receiver by means of the frequency synchronization sequence.

24. (Currently Amended) A computer program according to claim 22, ~~characterized in that~~ wherein the computer process comprises ~~the steps of:~~

receiving ~~(724)~~ the test signal as input, a time synchronization sequence being positioned in at least one of its time-slots allocated for transmission of system information;

identifying ~~(726)~~ the time synchronization sequence from the test signal; and

time-synchronizing ~~(728)~~ the receiver by means of the time-synchronization sequence.

25. (Currently Amended) A computer program according to claim 22,
~~characterized in that~~ wherein the computer process comprises:

receiving ~~(610B)~~ as input a test signal which contains a 51-frame multi-frame with a plurality of time-slots allocated for transmission of system information, synchronization sequences supported by the mobile communication system being positioned in time-slots in such a way that repetition of the synchronization sequence in the 51-frame multi-frame is at least one of the following: 7 times, 11 times; and

synchronizing ~~(614)~~ the receiver by means of the synchronization sequences.

26. (Currently Amended) A computer program according to claim 22,
~~characterized in that~~ wherein the computer process comprises:

receiving ~~(704)~~ as input the test signal that contains a test sequence;

identifying ~~(706)~~ the test sequence from the test signal;

generating ~~(909)~~ a variable characterizing the receiver by means of the test sequence;
and

outputting ~~(710)~~ the signal containing the receiver-characterizing variable to an external bus of the wireless messaging device.

27. (Currently Amended) A computer program according to claim 22,
~~characterized in that~~ wherein the computer process comprises receiving ~~(610B)~~ as input the test signal that contains physical time-slots, at least one of which time-slots is allocated for transmission of system information from the base transceiver station to the messaging device, and in which time-slot a synchronization sequence supported by the mobile communication system is positioned, the synchronization sequence comprising at least one of the following: the training sequence code of a synchronization channel (~~SCH~~) according to the GSM standard; bits of a frequency correction channel (~~FCCH~~) according to the GSM standard.